

HYDROLOGY

Precipitation

Average annual precipitation for the basin ranges from 31 inches in the northern part of the basin to 35 inches in the southern portion of the basin (USDA-SCS 1982). The greatest amount of precipitation usually occurs during June, while the least amount of precipitation generally occurs during the months of January and February (Figure 2). The basin is covered primarily in glacial till, and due to the clay content, movement of water to the subsurface is greatly diminished (Detroy and Skelton 1983). Thus, most rainfall runs off the surface rather than percolating into the soil. Streams in the basin show rapid flow increases in conjunction with rains, but quickly return to low flow conditions shortly after runoff ceases (MDNR 1995). Average annual runoff ranges from five inches in the northern portion of the basin to seven inches in the southern part of the basin (USDA-SCS 1982).

United States Geological Survey (USGS) Gage Stations

There are five active and 26 inactive USGS water gage stations throughout the Platte River basin (Appendix C). Two of the active gage stations are located on the 102 River in Iowa, near the towns of Gravity (crest station) and Bedford (Figure ga). The remaining three active stations are located in Missouri. One station is located on Little Platte River 2.4 miles below Smithville Reservoir, one is located at Smithville Reservoir in the dam, and the remaining one is located on the Platte River at Sharps Station (Figure ga). Discharges at these active gaging stations are presented in Table 7.

Permanent / Intermittent Streams

Permanency of flow in streams within the Platte River basin is best illustrated on USGS 7.5 minute topographic maps. The USGS identified perennial reaches of streams (defined as having water 12 months of the year during years of normal precipitation) on these maps with solid blue lines. Intermittent streams (defined as having water less than 12 months of the year) were indicated with broken blue lines. A listing of the 7.5 minute quadrangle maps covering each of the 435 third order and larger streams within the Platte River basin is provided in Appendix D (Figure to).

Funk (1968) classified Missouri streams as permanent if they maintained flow during drought. Intermittent streams were defined as those that maintained permanent pools when flow ceased during drought periods. Based on these criteria, Funk (1968) determined that the entire 138 miles of the Platte River in Missouri had permanent flow. In addition, the entire 70 miles of the 102 River in Missouri maintained permanent flow as well (Table 8). Information on the permanence / intermittence of flows in smaller tributaries within the basin is presented in Table 8.

Stream Flow

Average annual discharge for the Platte River at Sharps Station, which is 3.3 miles below the confluence of the Little Platte River in Platte County at river mile 25.1 (98% of the drainage basin), is 1,925 cfs (Table 7). Examination of the flow duration curve for the Platte River at

Sharps Station shows that temporal discharge variability within the basin is high (Figure 3). The highest instantaneous daily flow was 37,800 cfs recorded on July 26, 1993, while the lowest instantaneous daily flow was 12 cfs recorded on August 7, 8, 13, and 14, 1989. Stream flows within the basin are generally lowest in January, while peak flows occur during May, June, and July (Figure 4), and these flows coincide with monthly precipitation values. Low flows in the Little Platte River below Smithville Dam are maintained at 8 cfs. Hauth (1974) presented flood magnitudes at various recurrence intervals for several locations within the Platte River basin, and these are presented in Table 9 .

7-Da y Q_2 and Q_{10} Low Flows

Skelton (1976) noted that low-flow characteristics of streams vary among physiographic regions in Missouri, and that the low-flow potential of most streams in the Dissected Till Plains region is poor because of the low hydraulic conductivity of the clays and shales in the area. Skelton (1976) estimated that the 7-day Q_2 would be zero for drainage basins less than 100 miles². In addition, about 60% of streams with drainage basins of 100 to 200 miles² would have 7-day Q_2 values of zero, and the remaining streams of this size would have 7-day Q_2 values ranging from 0.1 to 1.0 cfs. Skelton (1976) also estimated that the 7-day Q_{10} would be zero for drainage basins less than 200 miles² in this region, with about 70% of the streams with drainage basins of 200 to 1,000 miles² having 7-day Q_{10} values of zero. The remaining 30% would have 7-day Q_{10} values ranging from 0.1 to 1.5 cfs. Data from the Platte River basin for seven day low-flows at two and ten year intervals were reported in Skelton (1970) and Skelton (1976), and these are presented in Table 10. The slope index (the ratio of the 7-day Q_2 to 7-day Q_{20}) for the Platte River at Agency was 73.3, and this high value indicates extremely high variability in annual low flows and poor groundwater supply. The average slope index for ten streams within the Dissected Till Plains region was 25 (Todd et al. 1994), and ranged from 8.7 in the Grand River near Gallatin to 73.3 for the Platte River. Channelization and watershed modifications were attributed to the wide range in slope index values within northern Missouri (Todd et al. 1994).

Dam and Hydropower Influences

Smithville Lake, a 7,190-acre impoundment on the Little Platte River, and Mozingo Lake, a 1,000-acre impoundment on Mozingo Creek, are the two largest impoundments within the basin. In 1984, there were 59 impoundments greater than two surface acres within the Missouri portion of the basin, and these totaled 635 acres (MDNR 1995). Although no information exists on the total number of impoundments within the Iowa portion of the basin, ten public impoundments totaling 1,042 acres were identified. Undoubtedly, the number of impoundments greater than two acres has increased dramatically throughout the basin since 1984 in association with PL 83-566, SALT, EARTH, and other erosion control projects. Concern exists on what effects these impoundments have on low flow conditions because they intercept runoff and provide little or no provisions for maintenance of stream flows. There are no hydropower facilities within the Platte River basin.

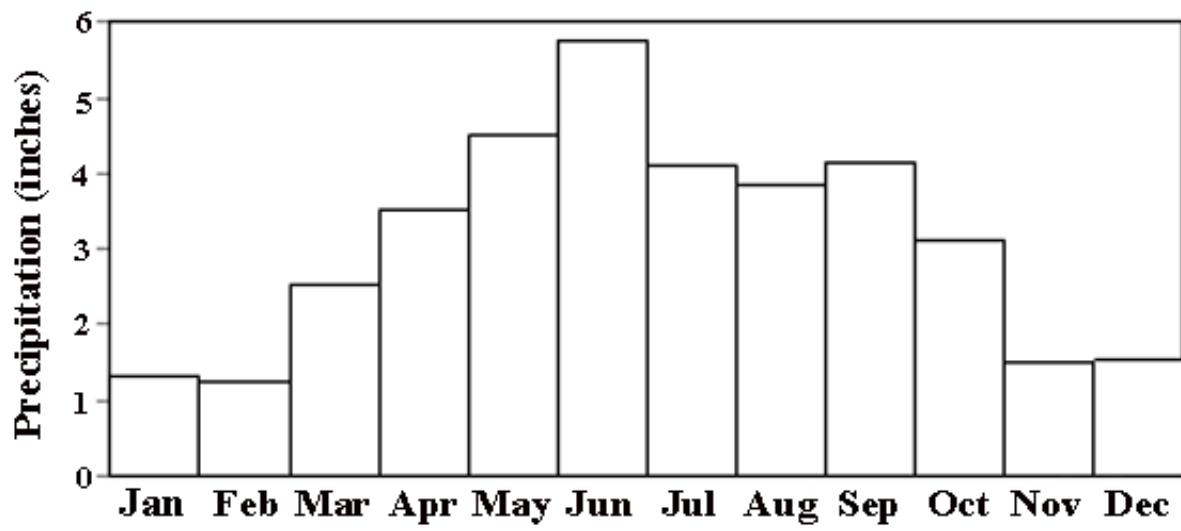


Figure 2. Average monthly precipitation for northern Missouri.

Appendix C. Listing of the active and inactive USGS water gaging stations within the Platte River basin. C = crest-stage gage; D = continuous record streamflow gage; L = low flow gage; Q = water quality station.

Station #	Station Name	Location (Latitude, Longitude)	Type	Period of Record
06818650	E. Platte R. near Knowlton, IA	40°54'00" 94°26'00"	L	Scattered 1969-1975
06818700	Platte R. near Knowlton, IA	40°52'00" 94°26'00"	L	Scattered 1969-1977
06818750	Platte R. near Diagonal, IA	40°46'02" 94°24'46"	D	1969-1971
06819180	E. Fork 102 R. near Conway, IA	40°44'00" 94°39'00"	L	Scattered 1969-1984
06819185	E. Fork 102 R. at Bedford, IA	40°39'38" 94°42'59"	D	1983-Present
06819190	E. Fork 102 R. near Bedford, IA	40°38'01" 94°44'41"	C	1959-1983
06819195	Middle Fork 102 R. near Bedford, IA	40°35'00" 94°49'00"	L	Scattered 1969-1976
06819120	W. Branch 102 R. near Gravity, IA	40°48'00" 94°49'00"	L	Scattered 1970-1976
06819100	W. Branch 102 R. near Gravity, IA	40°49'00" 94°49'00"	L	Scattered 1970-1976

06819140	W. Branch 102 R. near New Market, IA	40°44'00" 94°51'00"	L	Scattered 1969-1976
06819150	W. Branch 102 R. near New Market, IA	40°43'00" 94°51'00"	L	Scattered 1969-1975
06819110	W. Branch 102 R. near Gravity, IA	40°49'31" 94°44'36"	C	1966-Present
06818900	Platte R. at Ravenwood, MO	40°24'42" 94°41'09"	C	Scattered 1921-1932; 1958-1971
06819010	Long Branch near Guilford, MO			Scattered 1940-1960's
06819020	Platte R. at Whitesville, MO	40°03'41" 94°43'37"	L	1963-1970
06819090	Platte R. near St. Joseph, MO	39°46'40" 94°43'24"	L	1962-1965; 1967; 1972
06919500	102 R. near Maryville, MO	40°23'15" 94°49'35"	D	1932-1990
06820000	White Cloud Creek near Maryville, MO	40°23'22" 94°54'33"	D	1948-1970
06820400	White Cloud Creek near Barnard, MO			Scattered 1940-1960's
06920420	102 R. at Rosendale, MO	40°02'44" 94°49'41"	L	1963-1965; 1967; 1969-1970
06820460	102 R. at Avenue City, MO	39°51'29" 94°46'07"	L	1942-1972
06920480	102 R. near St. Joseph, MO	39°47'00" 94°45'55"	L	1962-1965; 1967; 1971

06820490	Third Fork Platte R. near Easton, MO	39°46'10" 94°38'10"	L	1971-1972
06920500	Platte R. near Agency, MO	39°41'20" 94°42'15"	D	1924-1987
06920900	Castile Creek near Gower, MO	39°35'40" 94°34'30"	L	Scattered 1940-1960's
06821000	Jenkins Branch at Gower, MO	39°37'29" 94°36'01"	D	1950-1976
06821050	Castile Creek near Edgerton, MO	39°33'25" 94°40'00"	L	1962-1965; 1967
06821190	Platte R. at Sharps Station, MO	39°24'03" 94°43'36"	D, Q	1978-Present
06821200	Platte R. at Platte City, MO	39°22'09" 94°47'10"	L	1962-1975
06821140	Smithville Reservoir near Smithville, MO	39°23'50" 94°33'25"	C	1981-Present
06821150	Little Platte R. at Smithville, MO	39°23'17" 94°34'44"	D	Scattered 1940-1960's; 1966-Present

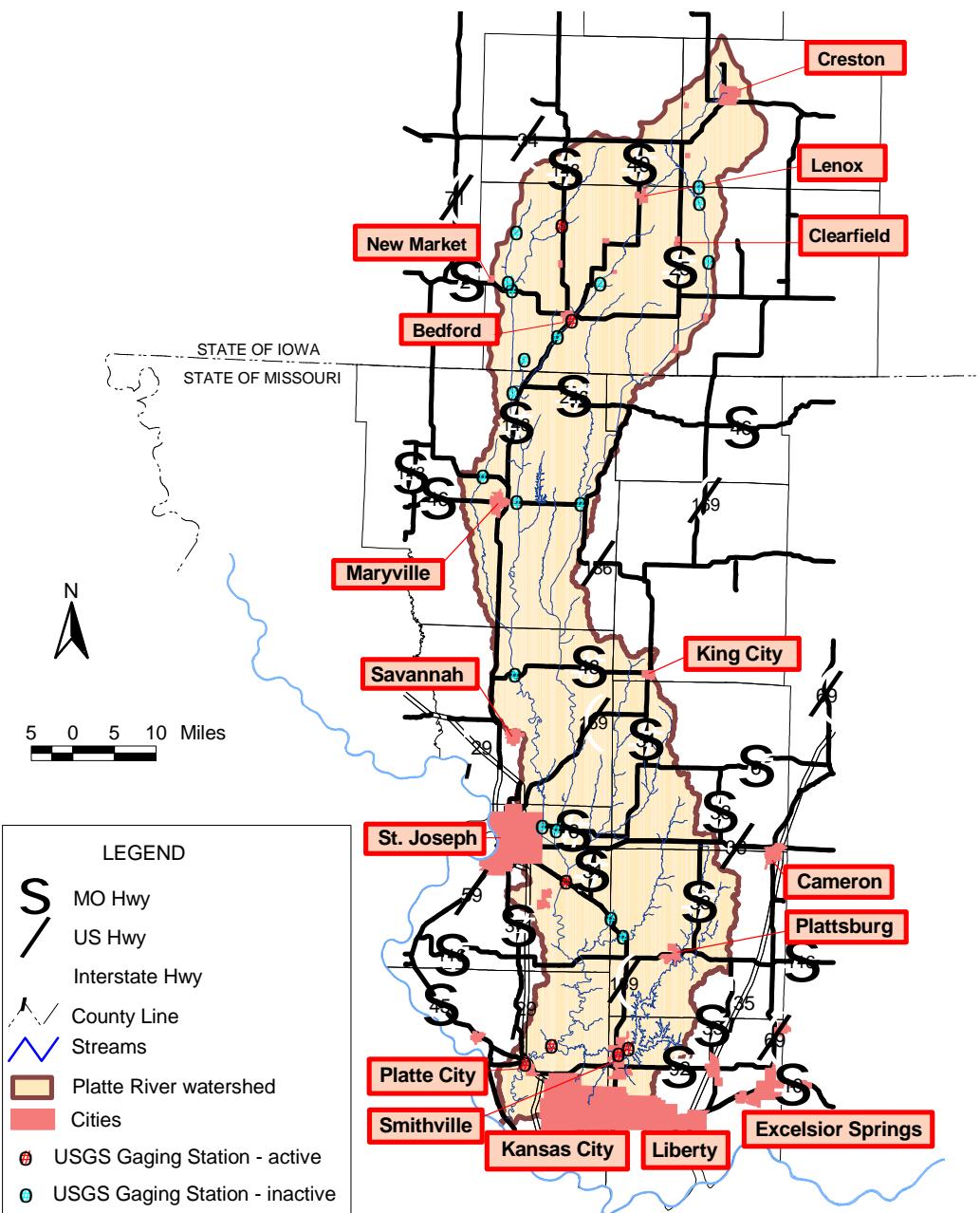


Figure ga. Active and inactive gage stations within the Platte River basin.

Table 7. Discharge information (cfs) for active USGS gage sites within the Platte River basin for the total period of record (USGS 1995; USGS 1996).

Location	Annual Mean	Highest Annual Mean	Lowest Annual Mean	10% Exceed	50% Exceed	90% Exceed
East Fork 102 R., Bedford, IA	64.1	200.0	12.0	99.0	8.3	0.5
Platte R., Agency, MO	980.0	4108.0	67.4	2080.0	190.0	22.0
Little Platte R., Smithville, MO	179.0	476.0	35.4	560.0	22.0	8.4
Platte R., Sharps Station, MO	1925.0	5697.0	464.0	4650.0	667.0	70.0

Appendix D.Table a. Stream information for third order and larger streams from the Platte River basin
 (Information source: 7.5 minute series, 1:24000 scale, USGS topographic maps). Original length and miles
 channelized for all streams fourth order and larger were estimated using 7.5 minute series, 1:24000 scale,
 USGS orthophoto quadrangle maps.

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Platte River	8	51-35-04	R9,Q9,Q10,P10,O10,N10,M10,L10,K9,K10,J10,I10,I11,H11,H12,G12,F12,E12,D12,C12	Missouri River	281.1	195.5	89.9
Prairie Creek	4	52-35-23	R9,R10	Platte River	8.4	8.1	0.4
Sand Branch	3	52-35-23	R9,R10	Prairie Creek		4.2	
Fox Creek	3	52-35-13	R9,R10	Prairie Creek		3.0	
Lanter Branch	3	52-35-15	R9	Platte River		2.0	
Unnamed #001	3	53-35-25	Q9	Platte River		2.4	
Murray Branch	3	53-35-24	Q9	Platte River		2.8	
Clear Branch	3	53-34-29	Q10,R10	Platte River		3.5	
Jowler Creek	4	53-34-16	Q10,Q9,P9	Platte River		10.5	
Unnamed #002	3	53-34-06	Q9	Jowler Creek		2.9	
Little Platte River	6	53-34-14	Q10,Q11,P11,P12,O12,O13,N12	Platte River	67.6	66.4	2.7
Todd Creek	4	53-33-19	Q10,R10	Little Platte River	12.3	11.9	1.0
Wildcat Branch	3	52-34-01	R10	Todd Creek		4.3	
Unnamed #003	3	53-33-20	Q11,Q10	Little Platte River		2.8	
Owens Branch	3	53-33-22	Q11	Little Platte River		4.5	
Second Creek	4	53-33-22	Q11,R11,R10	Little Platte River		15.8	
First Creek	3	53-33-27	R11	Second Creek		10.3	
Unnamed #004	3	52-33-19	R10	Second Creek		3.9	
Wilkerson Creek	4	53-33-23	Q11,R11	Little Platte River	11.4	9.4	1.0
Rocky Branch	3	53-33-36	R11	Wilkerson Creek		7.1	
Polecat Creek	3	52-32-07	R11,R12	Wilkerson Creek		2.7	
Unnamed #005	3	53-33-24	Q11	Little Platte River		1.6	
Crows Creek	4	53-33-24	Q11,R11	Little Platte River		5.7	
Mitchell Branch #1	3	53-32-30	Q11,R11	Crows Creek		3.0	
Camp Branch	5	53-32-18	Q11,Q12	Little Platte River		12.7	
Owl Creek	4	53-32-10	Q12,P12	Camp Branch		10.8	
Unnamed #006	3	54-32-34	Q12,Q11	Owl Creek		1.8	
Holtzclaw Creek	3	53-32-11	Q12,R12	Camp Branch		4.9	
Unnamed #007	3	53-32-01	Q12	Camp Branch		5.7	
Duncan Branch	3	53-32-07	Q11	Little Platte River		2.4	
Rock Branch	3	54-32-30	Q11	Little Platte River		2.7	
Linn Branch	4	54-32-19	Q11,P11	Little Platte River		8.6	
Roberts Branch	3	54-32-18	Q11,P11,P12	Linn Branch		13.2	
Unnamed #008	3	54-33-13	Q11	Linn Branch		2.2	
Unnamed #009	3	54-32-09	P12	Little Platte River		2.9	
Unnamed #010	3	54-32-09	P12,Q12	Little Platte River		2.3	
Unnamed #011	3	54-32-03	P12	Little Platte River		2.6	
Unnamed #012	3	54-32-03	P12	Little Platte River		2.2	
Unnamed #013	3	54-32-03	P12	Little Platte River		3.6	
Unnamed #014	3	55-32-34	P12	Little Platte River		2.5	
Unnamed #015	3	55-32-35	P12	Little Platte River		3.3	
Funkhouser Creek	4	55-32-26	P12	Little Platte River		3.9	
Unnamed #016	3	55-32-26	P12	Funkhouser Creek		2.3	
Unnamed #017	3	55-32-25	P12	Little Platte River		1.7	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Horse Fork	5	55-32-24	P12,O12	Little Platte River		12.0	
Reservoir Branch	4	55-32-13	P12	Horse Fork		3.5	
Unnamed #018	3	55-32-14	P12	Reservoir Branch		2.0	
Unnamed #019	3	55-31-18	P12	Horse Fork		0.8	
Unnamed #020	4	55-31-07	P12	Horse Fork		3.0	
Unnamed #021	3	55-32-01	P12	Unnamed #020		1.0	
Unnamed #022	3	56-31-30	O12	Horse Fork		1.9	
Unnamed #023	4	56-31-30	O12	Horse Fork		2.3	
Unnamed #024	3	56-32-24	O12	Unnamed #023		2.1	
Unnamed #025	5	55-31-30	P12	Little Platte River		4.9	
Unnamed #026	4	55-31-30	P12	Unnamed #025		3.6	
Unnamed #027	3	54-31-06	P12	Unnamed #025		1.0	
Unnamed #028	3	55-31-32	P12	Unnamed #026		2.2	
Unnamed #029	3	55-31-30	P12	Little Platte River		1.0	
Unnamed #030	3	55-31-20	P12	Little Platte River		2.0	
Grindstone Creek	3	55-31-17	P12,P13	Little Platte River		6.8	
Unnamed #031	3	55-31-08	P12	Little Platte River		1.3	
Unnamed #032	3	55-31-09	P12	Little Platte River		1.2	
Unnamed #033	5	55-31-04	P12,P13,O13	Little Platte River		9.0	
Unnamed #034	4	55-31-09	P12,P13	Unnamed #033		3.8	
Unnamed #035	3	55-31-10	P13	Unnamed #034		1.7	
Unnamed #036	4	55-31-03	P13	Unnamed #033		2.4	
Unnamed #037	3	55-31-02	P13	Unnamed #036		1.1	
Unnamed #038	3	55-31-02	P13	Unnamed #036		0.7	
Unnamed #039	3	56-31-34	O13	Unnamed #033		3.7	
Unnamed #040	3	55-31-04	P12	Little Platte River		1.9	
Unnamed #041	3	56-31-33	O12	Little Platte River		1.4	
Smith Fork	5	56-31-27	O13	Little Platte River	8.5	8.3	0.8
Unnamed #042	3	56-31-15	O13	Smith Fork		1.1	
Unnamed #043	4	56-31-11	O13	Smith Fork		3.2	
Unnamed #044	3	56-31-12	O13	Unnamed #043		1.0	
Unnamed #045	3	56-31-12	O13	Unnamed #043		0.7	
Unnamed #046	3	56-31-10	O13	Smith Fork		1.2	
Unnamed #047	3	56-31-02	O13	Smith Fork		2.8	
Unnamed #048	3	56-31-21	O12	Little Platte River		1.7	
Unnamed #049	4	56-31-16	O12	Little Platte River	3.5	3.7	0.2
Unnamed #050	3	56-31-08	O12	Unnamed #049		1.6	
Unnamed #051	3	56-31-05	O12	Little Platte River		1.9	
Unnamed #052	3	57-31-32	O12	Little Platte River		3.0	
Unnamed #053	3	57-31-33	O12	Little Platte River		2.7	
Unnamed #054	3	57-31-21	O12	Little Platte River		1.4	
Unnamed #055	3	57-31-21	O12,O13	Little Platte River		1.5	
Unnamed #056	3	57-31-16	N12,N13	Little Platte River		1.3	
Unnamed #057	4	57-31-16	N12	Little Platte River		3.5	
Unnamed #058	3	57-31-17	N12,O12	Unnamed #057		2.0	
Alger Creek	3	53-34-15	Q10	Platte River		5.9	
Unnamed #059	3	53-34-02	Q10	Platte River		2.6	
Dicks Creek	4	54-34-35	Q10,Q11	Platte River	13.0	12.4	0.4
Unnamed #060	3	54-33-33	Q11	Dicks Creek		2.3	
Bell Creek	3	54-34-24	Q10	Platte River		4.0	
Grove Creek	4	54-34-13	Q10,P10,P11	Platte River	7.2	6.9	0.5
Unnamed #061	3	54-33-09	P11	Grove Creek		3.4	
Holland Branch	4	54-34-11	P10	Platte River		5.8	
Chestnut Branch	3	54-34-10	P10	Holland Branch		4.1	
Mitchell Branch #2	3	54-33-06	P10,P11	Platte River		3.6	
Castile Creek	5	55-34-25	P10,P11,O11, O12,N12,M12	Platte River	48.4	45.3	3.6
Malden Creek	4	55-34-24	P10,O10,O11	Castile Creek	17.3	15.7	1.1

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Crabapple Branch	3	55-33-07	P10	Malden Creek		3.0	
Jenkins Branch	3	55-33-17	P10,P11,O11	Castile Creek		6.4	
Unnamed #062	3	55-33-16	P11	Castile Creek		4.4	
Unnamed #063	3	55-33-10	P11	Castile Creek		4.2	
Unnamed #064	3	55-33-02	P11,O11	Castile Creek		3.2	
Unnamed #065	3	55-33-12	P11	Castile Creek		3.7	
Unnamed #066	3	55-33-01	P11	Castile Creek		3.2	
Unnamed #067	3	56-32-32	P11	Castile Creek		2.7	
Unnamed #068	4	56-32-29	O11,O12,P12	Castile Creek	4.9	4.3	0.5
Unnamed #069	3	56-32-28	O11,P11,P12	Unnamed #068		1.9	
Unnamed #070	3	56-32-28	O11,O12	Unnamed #068		0.9	
McGuire Branch	3	56-32-29	O11	Castile Creek		9.9	
Unnamed #071	4	56-32-29	O11,O12	Castile Creek		5.2	
Unnamde #072	3	56-32-22	O12	Unnamed #071		2.3	
Unnamed #073	3	56-32-21	O11,O12	Castile Creek		2.1	
Unnamed #074	3	56-32-09	O11,O12	Castile Creek		2.2	
Unnamed #075	4	56-32-09	O12	Castile Creek	4.5	4.2	0.4
Unnamed #076	3	56-32-10	O12	Unnamed #075		3.0	
Unnamed #077	3	56-32-14	O12	Unnamed #075		1.4	
Unnamed #078	4	56-32-04	O12	Castile Creek	6.9	6.1	0.8
Unnamed #079	3	56-32-02	O12	Unnamed #078		3.4	
Unnamed #080	3	57-32-34	O12	Castile Creek		1.3	
Unnamed #081	3	57-32-34	O12,O11	Castile Creek		1.9	
Unnamed #082	3	57-32-27	O12	Castile Creek		4.3	
Unnamed #083	3	57-32-22	O12,N12	Castile Creek		2.2	
Unnamed #084	3	57-32-22	O11,O12,N11	Castile Creek		3.2	
Unnamed #085	4	57-32-15	N12,N11	Castile Creek	4.2	3.8	0.4
Unnamed #086	3	57-32-09	N11	Unnamed #085		1.5	
Unnamed #087	3	57-32-09	N11	Unnamed #085		1.7	
Unnamed #088	3	57-32-15	N12	Castile Creek		2.6	
Unnamed #089	3	57-32-03	N12	Castile Creek		0.6	
Unnamed #090	4	57-32-02	N12	Castile Creek	5.2	4.8	0.4
Unnamed #091	3	58-32-35	N12	Unnamed #090		3.1	
Unnamed #092	3	58-31-31	N12	Unnamed #090		1.5	
Unnamed #093	3	58-32-34	N12	Castile Creek		2.4	
Unnamed #094	3	58-32-35	N12	Castile Creek		2.5	
Unnamed #095	4	58-32-24	N12	Castile Creek	2.9	3.1	0.5
Unnamed #096	3	58-31-19	N12	Unnamed #095		1.2	
Unnamed #097	3	58-32-13	N12	Castile Creek		2.0	
Unnamed #098	3	58-32-13	N12,M12	Castile Creek		3.6	
Unnamed #099	3	55-34-27	P10	Platte River		4.4	
Belcher Branch	4	55-34-21	P10,P9	Platte River		2.9	
Unnamed #100	3	55-34-16	P10,P9	Belcher Branch		2.8	
Unnamed #101	3	55-34-10	P10	Platte River		1.5	
Unnamed #102	3	55-34-03	P10,O10	Platte River		2.4	
Unnamed #103	3	55-34-04	P10	Platte River		1.8	
Rock Creek	3	56-34-33	O10,P10,P9	Platte River		3.3	
Pigeon Creek	3	56-34-21	O10,O9	Platte River		7.1	
Riley Branch	3	56-34-03	O10,O11	Platte River		8.3	
Third Fork	7	57-34-34	O10,N10,N11, M11,L11,L10	Platte River	53.1	41.8	18.5
Unnamed #104	3	57-34-13	N10	Third Fork		2.1	
Unnamed #105	3	57-34-18	N10,N11,O10	Third Fork		2.8	
Muddy Creek	4	57-33-18	N10,M10	Third Fork	17.8	16.9	2.4
Unnamed #106	3	57-33-07	N10	Muddy Creek		4.1	
Unnamed #107	3	58-33-30	N10	Muddy Creek		1.5	
Unnamed #108	3	58-33-19	N10	Muddy Creek		1.5	
Unnamed #109	3	58-33-18	N10	Muddy Creek		1.2	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Unnamed #110	3	58-33-07	N10	Muddy Creek		1.6	
Unnamed #111	3	58-33-05	N10,M10	Muddy Creek		2.8	
Unnamed #112	3	59-33-20	M10,M11	Muddy Creek		1.4	
Little Third Fork	6	57-33-08	N10,N11,M11, M12,L11	Third Fork	38.2	30.9	11.3
Jordan Creek	4	57-33-03	N11	Little Third Fork	6.5	5.9	1.3
Unnamed #113	3	57-33-10	N11,O11	Jordan Creek		4.0	
Unnamed #114	3	57-33-10	N11,O11	Jordan Creek		3.4	
Unnamed #115	3	57-33-11	N11	Jordan Creek		1.9	
Unnamed #116	3	57-33-03	N11	Little Third Fork		1.0	
Unnamed #117	3	58-33-35	N11	Little Third Fork		2.1	
Unnamed #118	3	58-33-36	N11	Little Third Fork		1.5	
Unnamed #119	3	58-33-36	N11	Little Third Fork		2.3	
Unnamed #120	4	58-33-25	N11	Little Third Fork		2.0	0.0
Unnamed #121	3	58-33-24	N11	Unnamed #120		0.8	
Unnamed #122	3	58-32-30	N11	Little Third Fork		1.1	
Unnamed #123	3	58-32-30	N11	Little Third Fork		0.8	
Unnamed #124	3	58-32-30	N11	Little Third Fork		2.5	
Unnamed #125	3	58-32-20	N11,N12	Little Third Fork		2.2	
Unnamed #126	3	58-32-20	N11	Little Third Fork		1.8	
Morgan Branch #1	5	58-32-17	N11,M11	Little Third Fork	8.6	7.8	0.9
Unnamed #127	4	58-32-08	N11	Morgan Branch		1.7	
Unnamed #128	3	58-32-07	N11	Unnamed #127		1.0	
Unnamed #129	3	58-32-06	N11	Unnamed #127		0.7	
Unnamed #130	4	58-32-05	M11	Morgan Branch		2.2	
Unnamed #131	3	59-32-31	M11	Unnamed #130		0.5	
Unnamed #132	3	59-32-19	M11	Morgan Branch		0.8	
Unnamed #133	4	58-32-17	N11,N12	Little Third Fork	3.1	3.0	0.4
Unnamed #134	3	58-32-17	N11,N12	Unnamed #133		2.0	
Unnamed #135	3	58-32-09	N11,N12	Unnamed #133		1.3	
Unnamed #136	3	58-32-16	N12	Unnamed #133		1.3	
Unnamed #137	3	58-32-05	N11	Little Third Fork		0.8	
Unnamed #138	3	58-32-05	N11	Little Third Fork		0.4	
Unnamed #139	4	59-32-33	M11,M12	Little Third Fork		1.8	
Unnamed #140	3	59-32-33	M12,N12	Unnamed #139		1.2	
Unnamed #141	3	59-32-33	M11	Little Third Fork		1.2	
Unnamed #142	3	59-32-33	M11,M12	Little Third Fork		0.6	
Unnamed #143	4	59-32-28	M12	Little Third Fork	2.5	2.5	0.4
Unnamed #144	3	59-32-27	M12	Unnamed #143		1.5	
Unnamed #145	3	59-32-27	M12	Unnamed #143		1.5	
Unnamed #146	3	59-32-21	M11	Little Third Fork		1.5	
Unnamed #147	4	59-32-21	M12,M11	Little Third Fork	3.9	3.5	0.6
Unnamed #148	3	59-32-17	M11	Unnamed #147		1.3	
Unnamed #149	3	59-32-17	M11	Unnamed #147		1.3	
Unnamed #150	3	59-32-16	M12,M11	Little Third Fork		3.2	
Unnamed #151	4	59-32-10	M12	Little Third Fork	3.5	3.5	0.6
Unnamed #152	3	59-32-04	M12,M11	Unnamed #151		1.9	
Unnamed #153	3	60-32-28	M12,M11	Little Third Fork		2.1	
Unnamed #154	3	57-33-08	N10	Third Fork		1.8	
Unnamed #155	3	58-33-33	N11	Third Fork		0.9	
Unnamed #156	3	58-33-33	N11	Third Fork		1.4	
Bays Branch	4	58-33-22	N11	Third Fork		5.0	
Unnamed #157	3	58-33-23	N11	Bays Branch		0.5	
Unnamed #158	3	58-33-15	N11	Third Fork		1.4	
Unnamed #159	4	58-33-10	N11	Third Fork	3.3	3.3	0.5
Unnamed #160	3	58-33-11	N11	Unnamed #159		1.6	
Unnamed #161	3	58-33-10	N11	Third Fork		1.6	
Unnamed #162	3	58-33-03	N11	Third Fork		1.3	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Unnamed #163	4	58-33-03	N11,M11	Third Fork	3.6	2.9	0.7
Unnamed #164	3	59-33-35	M11	Unnamed #163		0.9	
Unnamed #165	3	58-33-03	M11,N11	Third Fork		1.2	
Unnamed #166	3	59-33-34	M11	Third Fork		1.6	
Unnamed #167	3	59-33-27	M11	Third Fork		3.6	
Unnamed #168	3	59-33-22	M11	Third Fork		1.2	
Crooked Creek #1	5	59-33-15	M11	Third Fork	8.4	7.2	1.9
Unnamed #169	3	59-33-15	M11	Crooked Creek #1		1.5	
Unnamed #170	3	59-33-14	M11	Crooked Creek #1		0.8	
Unnamed #171	4	59-33-11	M11	Crooked Creek #1		1.7	
Unnamed #172	3	59-33-12	M11	Unnamed #171		1.5	
Unnamed #173	3	59-33-13	M11	Unnamed #171		0.6	
Unnamed #174	3	59-33-12	M11	Crooked Creek #1		1.2	
Unnamed #175	3	59-33-12	M11	Crooked Creek #1		0.4	
Unnamed #176	3	59-33-01	M11	Crooked Creek #1		2.0	
Unnamed #177	3	59-33-01	M11	Crooked Creek #1		2.1	
Unnamed #178	3	59-33-01	M11	Crooked Creek #1		2.0	
Unnamed #179	3	60-33-36	M11	Crooked Creek #1		1.2	
Unnamed #180	3	59-33-10	M11	Third Fork		1.6	
Unnamed #181	3	59-33-10	M11	Third Fork		2.0	
Unnamed #182	3	59-33-03	M11	Third Fork		1.2	
Unnamed #183	3	59-33-03	M11,M10	Third Fork		2.4	
Unnamed #184	3	59-33-03	M11,M10	Third Fork		3.4	
Unnamed #185	3	60-33-34	M11	Third Fork		2.0	
Unnamed #186	3	60-33-27	M11	Third Fork		2.1	
Bull Creek	4	60-33-27	M11,L11,L10	Third Fork	7.0	5.7	2.4
Unnamed #187	3	60-33-27	M11,M10	Bull Creek		3.4	
Unnamed #188	4	60-33-23	L11	Third Fork		3.0	
Unnamed #189	3	60-33-24	L11,M11	Unnamed #188		1.7	
Elm Grove Branch	3	60-33-14	L11,L10	Third Fork		6.6	
Unnamed #190	3	60-33-14	L11	Third Fork		4.0	
Unnamed #191	3	61-35-25	L11	Third Fork		4.4	
Candy Creek	3	57-34-27	O10,O9	Platte River		7.2	
102 River	6	57-34-17	N10,N9,M9,L9,K9,J9,I9,H9	Platte River	100.4	78.6	31.3
Unnamed #192	3	58-34-30	N9	102 River		3.0	
Long Branch #1	4	58-34-18	N9,N10,M10	102 River	13.7	12.3	1.2
Bench Creek	3	58-34-18	N9,N10	Long Branch #1		1.4	
High Prairie Creek	3	58-34-06	N10	Long Branch #1		1.6	
Unnamed #193	3	59-34-32	M10	Long Branch #1		1.1	
Unnamed #194	3	59-34-32	M10	Long Branch #1		1.0	
Two Creek	3	59-34-29	M10	Long Branch #1		1.2	
Unnamed #195	3	59-35-12	M9,M10	102 River		2.0	
Unnamed #196	3	60-35-36	M9,M10	102 River		1.9	
Unnamed #197	3	60-35-23	L9,N9	102 River		2.6	
Unnamed #198	3	60-35-14	L9	102 River		2.9	
Unnamed #199	3	60-35-22	L9,M9	102 River		5.2	
Kellog Branch	4	60-35-15	L8,L9	102 River	6.3	5.9	0.3
Riggin Branch	3	60-35-16	L9,M9	Kellog Branch		1.9	
Unnamed #200	3	60-35-10	L9	102 River		4.0	
Lower Neely	3	61-35-34	L9	102 River		5.0	
Unnamed #201	3	61-35-27	L9	102 River		2.8	
Unnamed #202	3	61-35-22	L9	102 River		3.7	
Unnamed #203	3	61-35-15	L9	102 River		3.3	
Upper Neely	3	61-35-15	K9,L9	102 River		7.5	
White Cloud Creek	4	61-35-03	I8,J8,K8,K9,L9	102 River	38.9	30.1	8.7
Pumpkin Center Creek	3	62-35-18	K8,K9	White Cloud Creek		2.7	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Mullin Creek	3	63-36-36	J8,J9,K8	White Cloud Creek		4.7	
Theater Creek	3	63-36-12	J8	White Cloud Creek		2.9	
Peach Creek	3	64-36-35	J8	White Cloud Creek		5.0	
Big Slough	3	64-36-22	I8,J8	White Cloud Creek		6.2	
Pond Creek	3	64-36-02	I8,I9	White Cloud Creek		2.8	
Unnamed #204	3	61-35-03	L9,K9	102 River		2.7	
Unnamed #205	3	63-35-34	K9	102 River		2.2	
Dog Branch	3	63-35-27	J9,K9	102 River		6.4	
Jones Branch	3	63-35-10	J8,J9	102 River		4.1	
Mozingo Creek	4	63-35-03	H10,I9,I10,J9	102 River	25.0	20.0	6.1
Unnamed #206	3	64-35-36	J9	Mozingo Creek		1.5	
Unnamed #207	3	64-35-13	J9	Mozingo Creek		2.1	
Unnamed #208	3	64-35-12	I9,J9	Mozingo Creek		1.3	
Long Hollow	3	65-35-25	I9,I10	Mozingo Creek		2.3	
Unnamed #209	3	65-34-18	I9,I10	Mozingo Creek		1.5	
Unnamed #210	3	64-35-27	J9	102 River		3.4	
Thill Branch	3	64-35-15	I9,J9	102 River		4.1	
Unnamed #211	3	65-35-34	I9	102 River		2.4	
Canal Branch	4	65-35-27	I8,I9	102 River		5.3	
Unnamed #212	3	65-35-29	I9	Canal Branch		2.5	
Pinhook Creek	4	65-35-27	I9	102 River	3.1	2.6	0.2
Unnamed #213	3	65-35-26	I9	Pinhook Creek		1.0	
Unnamed #214	3	65-35-22	I9	102 River		3.8	
Norvey Creek	4	65-35-15	H9,H10,I9	102 River	20.0	17.0	4.0
Unnamed #215	3	65-35-14	I9	Norvey Creek		1.9	
Unnamed #216	3	65-35-14	I9	Norvey Creek		1.0	
Unnamed #217	3	65-35-11	I9	Norvey Creek		1.2	
Unnamed #218	3	65-35-02	I9	Norvey Creek		1.7	
Unnamed #219	3	66-34-30	I9	Norvey Creek		1.5	
Unnamed #220	3	66-34-29	H9,I9	Norvey Creek		2.5	
Unnamed #221	3	67-34-34	H10	Norvey Creek		3.2	
Unnamed #222	3	65-35-15	I9	102 River		2.5	
Harmon Creek	4	65-35-10	I8,I9	102 River		4.0	
Unnamed #223	3	65-35-04	I9	Harmon Creek		1.8	
Unnamed #224	3	65-35-03	I9	102 River		1.9	
Slaughter Branch #1	3	66-35-35	I9	102 River		3.8	
Unnamed #225	3	66-35-34	I8,I9	102 River		2.8	
Slaughter Branch #2	3	66-35-27	H9,I9	102 River		3.8	
Beard Branch	4	66-35-22	H9	102 River		9.1	
Unnamed #226	3	66-35-12	H9	Beard Branch		2.3	
Unnamed #227	3	66-35-22	H8,H9	102 River	3.2	2.3	0.2
West Fork 102 River	5	66-35-10	E9,E10,F9,G9, H9	102 River	56.7	40.8	21.1
Unnamed #228	3	66-35-03	H8,H9	West Fork 102 River		2.7	
Unnamed #229	3	67-35-27	H8,H9	West Fork 102 River		4.5	
Unnamed #230	3	67-35-22	H8,H9	West Fork 102 River		4.0	
West Branch 102 River	5	68-35-03	E10,E11,F9, F10,G9	West Fork 102 River	35.1	29.4	7.3
Unnamed #231	3	69-35-28	F8,F9	West Fork 102 River		2.1	
Rose Branch	3	70-34-07	E9,F9	West Fork 102 River		7.8	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Middle Branch 102 River	4	69-34-06	E11,F9,F10,F11	West Branch 102 River	21.9	18.2	4.4
Unnamed #232	3	70-34-34	F10	Middle Branch 102 River		7.8	
Unnamed #233	3	70-34-29	E10,F9,F10	West Branch 102 River		5.5	
Unnamed #234	3	70-34-12	E10	West Branch 102 River		2.4	
Lonzo Creek	3	70-34-01	E10,E11	West Branch 102 River		3.0	
Willow Creek	3	71-33-29	E10,E11	West Branch 102 River		6.0	
Unnamed #235	3	71-33-09	E10	West Branch 102 River		1.3	
Middle Fork 102 River	4	66-35-02	F10,G9,G10,H9	102 River	32.5	27.9	5.8
Brushy Creek	3	67-35-24	G9,H9	Middle Fork 102 River		12.9	
East Fork 102 River	4	66-35-02	F11,G9,G10,G11,H9	102 River	45.0	31.0	16.3
Daugherty Creek	3	67-34-09	G9,G10	East Fork 102 River		7.8	
Unnamed #236	3	67-34-03	G10	East Fork 102 River		2.4	
Unnamed #237	3	68-34-18	G10	East Fork 102 River		5.9	
Unnamed #238	3	68-33-04	G10,G11	East Fork 102 River		4.9	
Ash Branch	3	69-33-23	F11	East Fork 102 River		4.3	
Hog Branch #1	3	69-33-13	F11,F12	East Fork 102 River		6.1	
East River	4	69-33-01	E11,F11,F12	East Fork 102 River	13.8	10.6	4.9
Unnamed #239	3	70-32-28	F11	East River		3.3	
Unnamed #240	3	57-34-16	N10	Platte River		3.9	
Unnamed #241	3	57-34-04	N10	Platte River		3.0	
Unnamed #242	3	58-34-32	N10	Platte River		1.6	
Unnamed #243	3	58-34-28	N10	Platte River		1.6	
Unnamed #244	4	58-34-22	N10	Platte River	4.7	4.1	1.1
Unnamed #245	3	58-34-16	N10	Unnamed #244		2.4	
Unnamed #246	3	58-34-22	N10	Platte River		1.8	
Unnamed #247	3	58-34-15	M10,N10	Platte River		3.2	
Unnamed #248	3	58-34-15	N10	Platte River		2.2	
Unnamed #249	4	58-34-10	N10	Platte River		3.0	
Unnamed #250	3	58-34-11	N10	Unnamed #249		1.5	
Unnamed #251	3	58-34-03	M10,N10	Platte River		2.5	
Unnamed #252	3	58-34-03	M10,N10	Platte River		1.9	
Unnamed #253	3	58-34-02	M10	Platte River		1.0	
Unnamed #254	3	59-34-35	M10	Platte River		2.5	
Unnamed #255	3	59-34-26	M10	Platte River		1.5	
Unnamed #256	3	59-34-26	M10	Platte River		2.1	
Unnamed #257	3	59-34-27	M10	Platte River		1.2	
Niagara Creek	4	59-34-23	M10	Platte River	8.0	6.9	0.6
Unnamed #258	3	59-34-23	M10	Niagara Creek		2.1	
Unnamed #259	3	59-34-13	M10	Niagara Creek		1.5	
Unnamed #260	3	59-34-13	M10	Niagara Creek		1.7	
Unnamed #261	4	59-34-22	M10	Platte River		1.9	
Unnamed #262	3	59-34-22	M10	Unnamed #261		1.1	
Unnamed #263	3	59-34-15	M10	Platte River		1.7	
Unnamed #264	3	59-34-10	M10	Platte River		1.3	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Unnamed #265	3	59-34-10	M10	Platte River		1.7	
Unnamed #266	3	59-34-03	M10	Platte River		1.6	
Unnamed #267	3	59-34-03	M10	Platte River		1.8	
Unnamed #268	3	60-34-34	M10	Platte River		2.6	
Unnamed #269	4	60-34-34	M10	Platte River		2.9	
Unnamed #270	3	60-34-34	M10	Unnamed #269		2.8	
Unnamed #271	3	60-34-34	M10	Platte River		1.8	
Unnamed #272	3	60-34-27	M10	Platte River		2.7	
Crooked Creek #2	4	60-34-15	L10	Platte River	8.8	7.2	1.2
Unnamed #273	3	60-34-14	L10,M10	Crooked Creek #2		3.8	
Agee Creek	3	60-34-09	L10	Platte River		6.8	
Unnamed #274	3	60-34-09	L9,L10	Platte River		3.7	
Unnamed #275	3	61-34-16	L9,L10	Platte River		3.7	
Hickory Creek	4	61-34-10	L10	Platte River	7.3	6.6	2.2
Unnamed #276	3	61-34-02	K10,L10	Hickory Creek		5.2	
Clear Creek	4	61-34-03	K10,L10	Platte River	9.6	7.4	3.1
Unnamed #277	3	62-34-13	K10	Clear Creek		1.1	
Long Branch #2	4	62-34-28	I10,J9,J10,K9, K10	Platte River	39.5	31.2	9.0
Unnamed #278	3	64-34-20	J10	Long Branch #2		2.5	
Unnamed #279	3	64-34-20	J10	Long Branch #2		2.9	
Unnamed #280	3	64-34-08	I10,J10	Long Branch #2		3.6	
Unnamed #281	3	62-34-17	K10	Platte River		1.7	
Unnamed #282	3	62-34-08	K10	Platte River		1.9	
Unnamed #283	3	62-34-05	K10	Platte River		3.9	
Unnamed #284	3	63-34-33	K10	Platte River		2.0	
Unnamed #285	3	63-34-22	K10	Platte River		1.6	
Unnamed #286	3	63-34-22	J10	Platte River		3.6	
Unnamed #287	3	63-34-11	J10	Platte River		1.6	
Unnamed #288	3	63-34-11	J10	Platte River		4.2	
Unnamed #289	3	64-34-35	J10	Platte River		3.3	
Unnamed #290	3	64-34-23	J10	Platte River		2.0	
Unnamed #291	3	64-34-24	J10	Platte River		2.1	
Unnamed #292	3	64-34-14	J10	Platte River		2.1	
Honey Creek	5	64-34-14	F11,F12,G10, G11,H10,I10, J10	Platte River	65.2	49.7	17.5
Unnamed #293	3	64-34-14	J10	Honey Creek		1.4	
Unnamed #294	3	64-34-11	J10	Honey Creek		2.1	
Unnamed #295	3	64-34-11	I10,J10	Honey Creek		2.3	
Unnamed #296	4	65-34-35	I10	Honey Creek		3.6	
Unnamed #297	3	65-34-35	I10	Unnamed #296		1.4	
Morgan Branch #2	3	65-34-25	I10	Honey Creek		2.0	
Hog Branch #2	4	65-34-13	I10	Honey Creek		5.0	
Unnamed #298	3	65-34-12	I10	Hog Branch #2		3.0	
Unnamed #299	3	67-33-29	H10	Honey Creek		4.1	
Unnamed #300	3	67-33-5	G10	Honey Creek		2.5	
Unnamed #301	3	64-34-12	J10	Platte River		2.6	
Brushy Creek	3	65-33-17	H10,H11,I10	Platte River		15.3	
Unnamed #302	3	66-33-26	H11,I11	Platte River		2.3	
Unnamed #303	3	66-33-2	H11	Platte River		2.7	
Platte Branch	4	67-32-31	F11,G11,H11	Platte River	23.0	20.3	5.5
Unnamed #304	3	67-32-19	H11	Platte Branch		2.6	
Unnamed #305	3	67-33-12	G11,H11	Platte Branch		4.1	
Unnamed #306	3	68-32-31	G11	Platte Branch		3.4	
Unnamed #307	3	67-32-12	G11,G12,H12	Platte River		5.5	
Unnamed #308	4	68-32-36	G12	Platte River		3.5	
Unnamed #309	3	68-32-25	G11,G12	Unnamed #308		3.3	
Unnamed #310	3	68-31-15	G12	Platte River		4.4	

Stream Name	Max. Order	Location at Mouth T R S	Map Numbers ¹	Receiving Stream	Original Length (Mi.)	Current Length (Mi.)	Miles Channelized
Unnamed #311	3	68-31-10	G12	Platte River		1.6	
Unnamed #312	3	69-31-34	G12	Platte River		3.4	
Turkey Creek	3	69-31-34	F12,G12	Platte River		7.3	
Unnamed #313	3	69-31-03	F12,F13	Platte River		4.5	
Gard Branch	3	70-31-28	F12	Platte River		6.5	
Unnamed #314	3	70-31-22	E12,F12	Platte River		5.7	
Unnamed #315	3	70-31-09	E12,F12	Platte River		2.6	
Middle Platte River	4	70-31-09	D12,D13,E12	Platte River	28.0	20.8	7.7
East Platte River	3	71-31-33	D13,E12,E13	Middle Platte River		16.3	
East Branch	3	71-31-16	D13,E12,E13	Middle Platte River		11.0	
Unnamed #316	3	70-31-06	E12	Platte River		3.4	
Unnamed #317	3	71-31-19	E12	Platte River		5.9	
Todd Branch	3	71-32-24	E11,E12	Platte River		7.3	
Saylings Creek	4	71-32-14	E11,E12	Platte River	11.8	9.3	3.4
Metz Creek	3	71-32-10	D11,E11	Saylings Creek		3.6	
West Platte River	3	71-32-02	D11,D12,E11, E12	Platte River		10.6	

¹. Map names and corresponding map numbers are listed in the following table.

Appendix D. Table b. USGS 7.5 minute series topographic maps, 1:24,000 scale, for Platte River basin coverage.

Map #	Map Name	Map #	Map Name	Map #	Map Name
C12	Orient, IA	I9	Pickering, MO	O12	Perrin, MO
C13	Zion, IA	I10	Parnell West, MO	O13	Cameron West, MO
D11	Prescott, IA	I11	Parnell East, MO	P9	Dearborn, MO
D12	Creston West, IA	J8	Maryville West, MO	P10	Edgerton, MO
D13	Creston East, IA	J9	Maryville East, MO	P11	Gower, MO
E9	Brooks, IA	J10	Ravenwood, MO	P12	Plattsburg, MO
E10	Corning South, IA	K8	Bolckow NW, MO	P13	Lathrop, MO
E11	Lenox, IA	K9	Barnard, MO	Q9	Tracy, MO
E12	Kent, IA	K10	Guilford, MO	Q10	Camden Point, MO
E13	Shannon City, IA	L8	Fillmore, MO	Q11	Smithville, MO
F8	Hawleyville, IA	L9	Bolckow , MO	Q12	Arley, MO
F9	Guss, IA	L10	Whitesville, MO	R9	Platte City, MO-KS
F10	Gravity, IA	L11	King City, MO	R10	Ferrelview, MO
F11	Merle Junction, IA	L12	Ford City, MO	R11	Nashua, MO
F12	Clearfield, IA	M8	Amazonia, MO	R12	Kearney SW, MO
F13	Diagonal, IA	M9	Savannah, MO		
G8	New Market, IA	M10	Helena, MO		
G9	Ladoga, IA	M11	Union Star, MO		
G10	Bedford, IA	M12	Wood, MO		
G11	Conway, IA	N9	St. Joseph North, MO-KS		
G12	Maloy, IA	N10	Cosby, MO		
H8	Hopkins SW, MO-IA	N11	Clarksdale, MO		
H9	Hopkins, MO-IA	N12	Amity, MO		
H10	Bedford SW, MO-IA	N13	Fordham, MO		
H11	Sheridan, MO-IA	O9	St. Joseph South, MO-KS		
H12	Blockton, MO-IA	O10	Agency, MO		
I8	Wilcox, MO	O11	Hemple, MO		

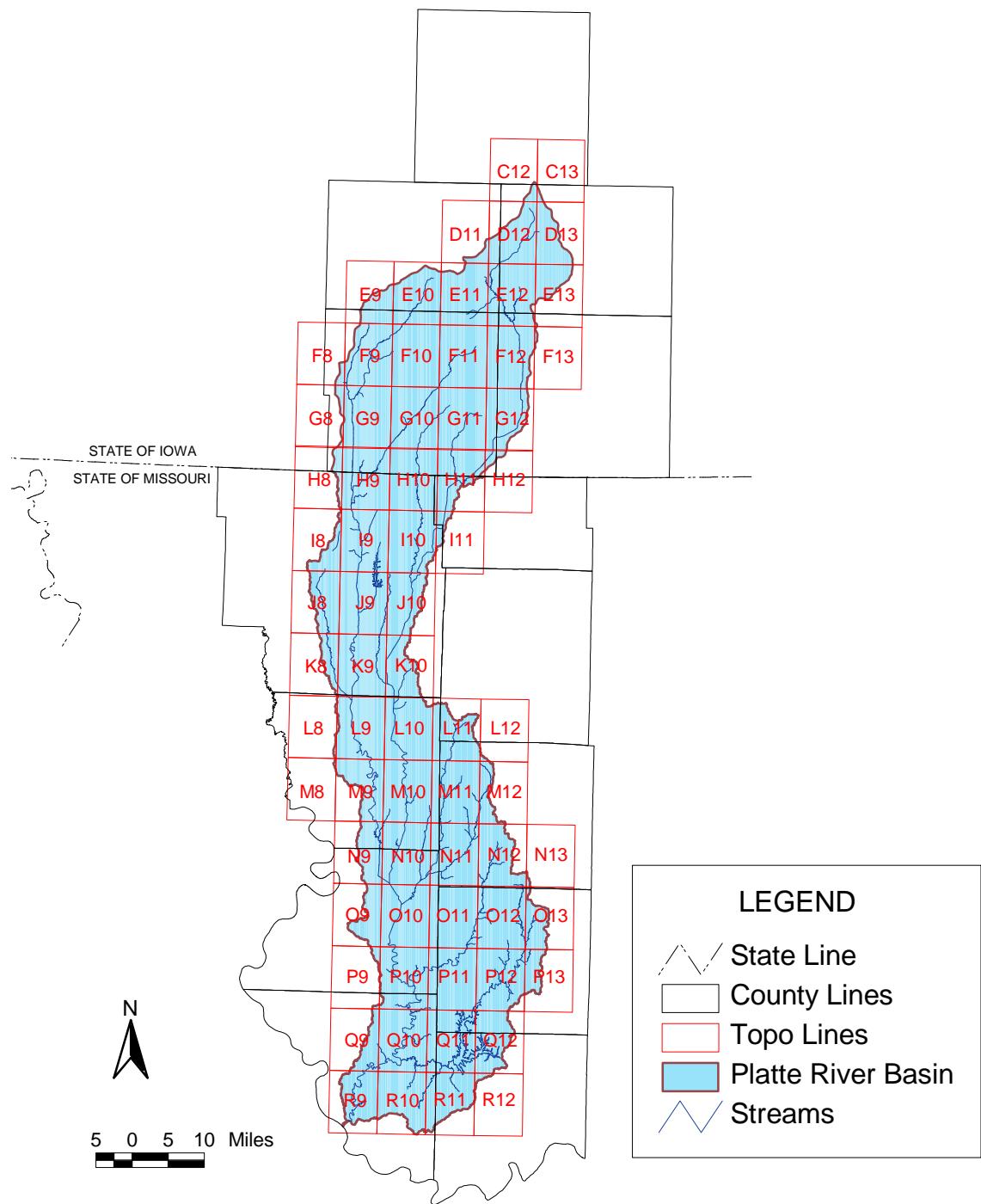


Figure to. Location of USGS 7.5 minute topographic maps within the Platte River basin.

Table 8. Miles of permanent and intermittent flow for selected streams within the Missouri portion of the Platte River basin (Funk 1968).

Stream	Maximum Order	Total Length	Permanent Flow (miles)	Intermittent Flow (miles)
Platte River	8	138	138.0	0.0
Third Fork Platte River	7	35	8.0	27.0
Little Platte River	6	44	12.0	32.0
L. Third Fork Platte River	6	27	12.0	15.0
102 River	6	70	70.0	0.0
Castile Creek	5	36	12.0	24.0
Long Branch	5	26	14.5	11.5
Honey Creek	5	10	8.5	1.5

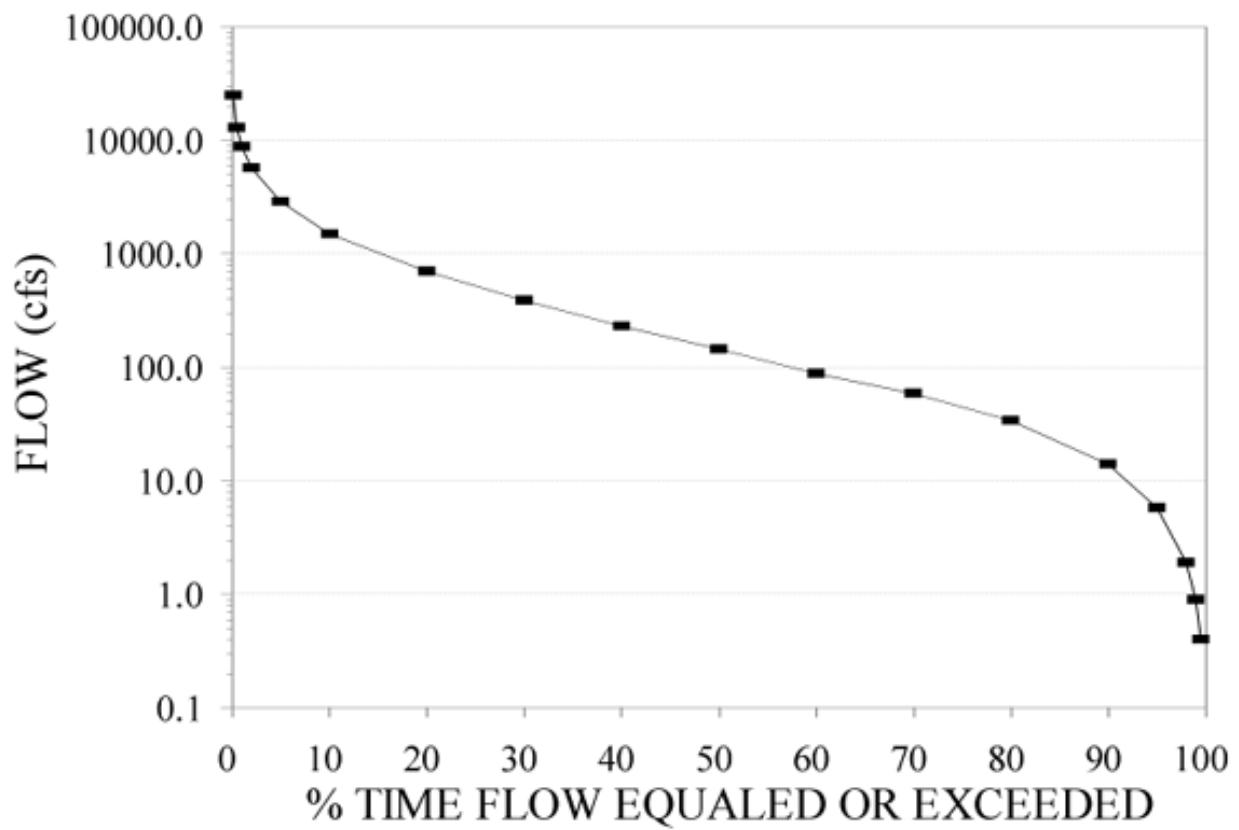


Figure 3. Flow duration curve for the Platte River near Agency, Missouri.

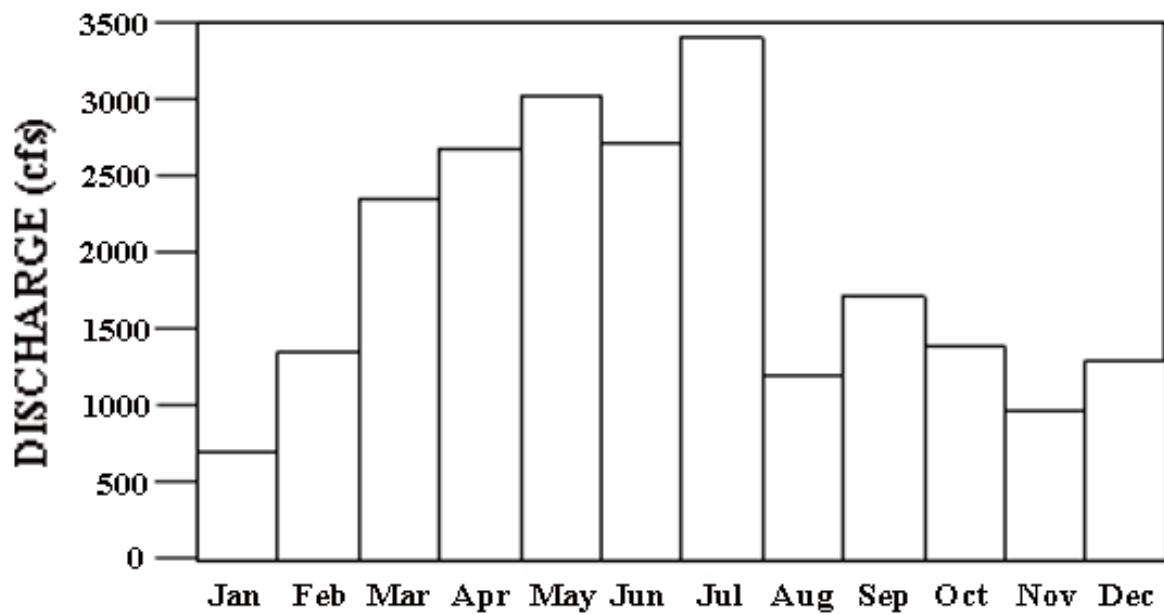


Figure 4. Mean daily discharge for the Platte River at Sharps Station by month for the period of record (December 1978 to September 1995).

Table 9. Flood magnitude at various recurrence intervals at four gaging stations within the Platte River basin in Missouri (Hauth 1974).

Location	Flood magnitude (cfs) for indicated recurrence interval					
	2 yr	5 yr	10 yr	25 yr	50 yr	100 yr
Platte R., Ravenwood MO¹	7,430	10,600	12,100	13,600		
102 R., Maryville MO¹	6,800	11,600	15,100	19,600	23,000	26,400
White Cloud Cr., Maryville MO¹	729	1,680	2,260	2,820	3,220	3,580
Platte R., Agency MO²	14,000	24,300	31,600	41,300	48,600	56,000

¹ - Inactive stations 1996

² - Active stations 1996

Table 10. Seven day low flow characteristics (cfs) for 2, 10, and 20 year recurrence intervals for selected locations within the Missouri portion of the Platte River basin (Skelton 1976).

Location	7-Day Q ₂	7-Day Q ₁₀	7-Day Q ₂₀
Platte R., Ravenwood MO	2.8	0.1	N/A
Long Branch, Guilford MO	0.0	0.0	0.0
Platte R., Whitesville MO	6.1	0.3	N/A
102 R., Maryville MO	5.2	0.4	0.2
White Cloud Cr., Maryville MO	0.0	0.0	0.0
White Cloud Cr., Barnard MO	0.0	0.0	0.0
102 R., Rosendale MO	3.0	0.2	N/A
102 R., Avenue City MO	5.8	0.3	N/A
102 R., St. Joseph MO	8.2	0.5	N/A
Platte R., Agency MO	44.0	2.6	0.6
Castile Cr., Gower MO	0.0	0.0	0.0
Jenkins Branch, Gower MO	0.0	0.0	0.0
Castile Cr., Edgerton MO	0.2	0.0	0.0
Platte R., Platte City MO	32.0	2.0	N/A